

Knollwood Energy of MA LLC P.O. Box 30 Chester, New Jersey 07930

NHPUC 1860Y150412:50

May 15, 2015

Debra A. Howland Executive Director New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, NH 03301-2429

Dear Ms Howland,

Enclosed please find the amended application for the Richard Kardell system to be part of the Knollwood Energy of MA LLC (NH-II-13-089) Class II Photovoltaic aggregation for New Hampshire Renewable Energy Certificates (RECs) generated from customer-sited sources, pursuant to New Hampshire Code of Administrative Rules Puc 2506.

Customer and Facility Information Richard Kardell 14 Marions Way Gorham, NH 03581 603.733.6234 kardellr@msn.com

The new Nepool GIS ID # for this facility is: NON48457. Also enclosed are the Simplified Process Interconnection Application and Service Agreement, and the Certificate of Completion. An electronic version has been sent to <a href="mailto:executive.director@puc.nh.gov">executive.director@puc.nh.gov</a>.

Please do not hesitate to contact me if you have any questions regarding this application.

Thank you for your consideration,

Linda Modica
New England REC Operations Manager *Knollwood Energy of MA LLC*973.879.7826
linda@knollwoodenergy.com

Enclosures (3)



## State of New Hampshire Public Utilities Commission



21 S. Fruit Street, Suite 10, Concord, NH 03301-2429

# DRAFT APPLICATION FORM FOR RENEWABLE ENERGY CERTIFICATE (REC) ELIGIBILITYFOR CLASS I AND CLASS II SOURCES WITH A CAPACITY OF 100 KILOWATTS OR LESS

Pursuant to New Hampshire Administrative Code Puc 2500 Rules including Puc 2505.08, Certification of Certain Customer-Sited Sources

- Please submit one (1) original and two (2) paper copies of the completed application and cover letter\* to:
   Debra A. Howland, Executive Director, New Hampshire Public Utilities Commission

   21 South Fruit Street, Suite 10, Concord, NH 03301-2429
- Send an electronic version of the completed application and the cover letter electronically to executive.director@puc.nh.gov.
- The cover letter must include complete contact information and identify the renewable energy class for which the applicant seeks eligibility. Pursuant to Puc 2505.01, the Commission is required to render a decision on an application within 45 days of receiving a completed application.

If you have any questions please contact Barbara Bernstein at (603) 271-6011 or <a href="mailto:Barbara.Bernstein@puc.nh.gov">Barbara.Bernstein@puc.nh.gov</a>.

<ul> <li>Photovoltaic (PV) solar facilities are Class II re</li> </ul>	sources. Contact Barbara.Bernstein@puc.nh.gov for assistance.
Eligibility Requested for: Class I	Class II X Check here X if this facility part of an aggregation
If the facility is part of an aggregation, please lis	the aggregator's name. Knollwood Energy of MA
<ul> <li>Provide the following information for the ow</li> </ul>	ner of the PV system.
Applicant Name Richard Kardell	Email <u>kardellr@msn.com</u>
Address 14 Marions Way	City Gorham State NH Zip 03581
Telephone 603.733.6234	Cell
<ul> <li>For business applicants, provide the facility n information).</li> </ul>	ame and contact information (if different than applicant contact
Facility Name	Primary Contact
Address	City State Zip
Telephone	Cell
Email address:	

Type   Type							
panels other							
Inverter 36 Enphase M250 other							
LIIPIIdSE IVIZSO							
meter 1 Landis+Gyr Focus other							
A copy of the interconnection agreement and the approval to operate your PV system from your electric utility must be included with your application.  For PSNH customers, both the Simplified Process Interconnection Application and Exhibit B - Certificate of Completion are required.							
What is the nameplate capacity of your facility (found on your interconnection agreement)?  9.0 AC  What was the initial date of operation (the date your utility approved the facility)?  11/5/14							
Provide the name, license number and contact information of the installer, or indicate that the equipment was installed directly by the customer.							
Installer  Name Smart Energy of New England Contact David Belanger applicable) n/a							
Address PO Box 56 City Colebrook State: H Zip 03576							
Telephone 603.496.3504 email david@smartenergyne.com							
If the equipment was installed directly by the customer, please check here:							
Provide the name and contact information of the equipment vendor.							
X Check here if the installer provided the equipment and proceed to the next question.							
Business Name Contact							
Address City State Zip							
Telephone email							
If an independent electrician was used, please provide the following information. (Sunray corporate electrician)							
Electrician's Name Rodney Smith License # 10774M							

\_\_\_\_\_ Email

S & S Electric

Business Name

Address 241 US Route 3	CityStewar	tstown Stat	re <u>NH</u> Zip <u>03576</u>				
Provide the name of the independent monitor for this facility. (A <u>list</u> of approved independent monitors is available at <a href="http://www.puc.nh.gov/Sustainable%20Energy/Renewable_Energy_Source_Eligibility.htm">http://www.puc.nh.gov/Sustainable%20Energy/Renewable_Energy_Source_Eligibility.htm</a> .)							
Independent Monitor's Name Tom Kelly Nat	ural Capital, LLC						
Is the facility certified under another state's renew If "yes", then provide proof of the certification as		dard? yes 🗌	no $\square_X$				
<ul> <li>Please note, if your facility is part of an aggree following information.</li> <li>In order to qualify your facility's electrical promust register with the NEPOOL – GIS. Contact</li> </ul>	oduction for Renewa	able Energy Certifica	ates (RECs), you				
J	ames Webb						
Registry Administrat	or, APX Environmer	ital Markets	,				
224 Airport Parkway	, Suite 600, San Jose	e, CA 95110					
Office: 408.517.	2174 <u>jwebb@a</u>	px.com					
If you are not part of an aggregation, Mr. Webb w	rill assist you in obta	ining a GIS facility co	ode.				
GIS Facility Code # NON48457	GIS Facility Code # NON48457 Asset ID # NON48457						
Complete an affidavit by the applicant or qualified installer that the project is installed and operating in conformance with any applicable state/local building codes. Use either the following affidavit form or provide a separate document.  The Commission requires a notarized affidavit as part of the application.							
AFFIDAVIT							
The Undersigned applicant declares under penalty of perjury that the project is installed and operating in conformance with all applicable building codes. (please see attached)							
Applicant's Signature		Date					
Applicant's Printed Name Linda Modica							
Subscribed and sworn before me this	Day of	(month)	in the year				
County of	State of	www.town.com					
	Notary	Public/Justice of the	Peace				
	Notary	i abile, Justice of the	. I cace				
My Commission Expires							

or provide a separate document. The Commission requires a notarized affidavit as part of the application. **AFFIDAVIT** The Undersigned applicant declares under penalty of perjury that the project is installed and operating in conformance with all applicable building codes. Applicant's Signature Date 5/13/15 Applicant's Printed Name Linda Modica Subscribed and sworn before me this 13 Day of May (month) in the year 2015 County of Morris State of New Jersey My Commission Expires

Complete an affidavit by the applicant or qualified installer that the project is installed and operating in conformance with any applicable state/local building codes. Use either the following affidavit form

• Complete the following checklist. If you have questions, contact <a href="mailto:barbara.bernstein@puc.nh.gov">barbara.bernstein@puc.nh.gov</a>.

CHECK LIST: The following has been included to complete the application:	YES
All contact information has been provided.	X
<ul> <li>A copy of the interconnection agreement. PSNH Customers should include both the Interconnection Standards for Inverters Sized up to 100 KVA and Exhibit B – Certification of Completion for Simplified Process Interconnection.</li> </ul>	x
Documentation of the distribution utility's approval of the installation.*	Х
• If the facility is participating in another state's renewable portfolio standard (RPS) program, documentation of certification in other state's RPS.	
A signed and notarized attestation.	х
A GIS number obtained from the GIS Administrator.	х
The document has been printed and notarized.	х
The original and 2 copies are included in the packet mailed to Debra Howland, Executive Director of the PUC.	х
<ul> <li>An electronic version of the completed application has been sent to executive.director@puc.nh.gov.</li> </ul>	х
*Usually included in the interconnection agreement.	

• If the application has been prepared by someone other than the applicant, complete the following. If the application was prepared by the applicant, check here 

and skip this section.

#### PREPARER'S INFORMATION

Preparer's Name	Linda Modica	Email address: linda@knollwoo	odenergy.co	<u>om</u>	water more and	
Address PO Box 3	30	City _Chester	State	NJ_	Zip	07930
Telephone 973	.879.7826	Cell				
Preparer's Signature	e: 5/18	5/16				
		1.				

#### RECEIVED

# PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INTERCONNECTION STANDARDS FOR INVERTERS SIZED UP TO 100 KVA

SEP 2 4 2014

SESD

### Simplified Process Interconnection Application and Service Agreement

			PSNH	Application Proje	ect ID#:	N3169_
Contact Information:	÷ .					
Legal Name and Address of	Interconnecting	Customer	for Company	iama if annionel	afail	e e
Customer or Company Name	forint). Richa	ard Kardell	(or, company r		•	
Contact Person, if Company	Ĩ					
Mailing Address: 14 Mari						
			NH		7in Cada	03581
Telephone (Daytime):				(Pyening)-	- Zip Code:	00001
Facsimile Number:			F-Mail	_ (Evening)		
			D man	riddress:		
Alternative Contact Inform	iation (e.g., Sve	stem install	lation contractor	or coordination	campany if an	reamintal.
Name: Smart Energy c	if New England	inc.		or contaments	company, it app	nophates.
Mailing Address: 4 Titus H	ill Road					·
City: Colebrook		_State: _	é. e. é			03576
Telephone (Daytime): 603	-496-3504			_ (Evening): _	-	
	386-0242	-	F-Mail	Address: david	@smartenergyn	e.com
TH				. 2003, 0003,		
Electrical Contractor Conf.	act Informatio	n (if annro	nriate):			
Name: S&SElectric			p,•			•
Mailing Address: 241 US F	Route 3					
City: Stewartstown		_State: _	NH		Zip Code:	03576
Telephone (Daytime): 603-	246-8698			_ (Evening):		***************************************
Facsimile Number:	n/a			Address:		to a series of the series of t
				and Stiffs between		
Facility Site Information:	}					
Facility (Site) Address:	14 Marion's Wa	ay 🗸				
City: Gorham	1 1	State:	NH			00581
Electric	į.					./
Service Company: P	SNH	- Account	Number: 56	82481503	2 Meter Numb	G5460037
Account and Meter Number:	Please consult a	in actual P	SNH electric hil	I and enter the co	rmet Account l	Mumbar and Mater Niembar
on this application. If the facil	ity is to be inst	alled in a n	new location, ple	ase provide the I	PSNH Work Re	quest number.
PSNH Work Request#						
EDITIE WOLK REQUESS#						
Non-Default' Service Customer	s Only:					
Competitive Electric						
Energy Supply Company:	· · · · · · · · · · · · · · · · · · ·			Accour	it Number:	
(Customer's with a Competitive	ve Energy Supp	ly Compar	ny should verify	the Terms & Con	ditions of their	contract with their Energy
Supply Company.)			••		J	

#### PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INTERCONNECTION STANDARDS FOR INVERTERS SIZED UP TO 100 KVA

### Simplified Process Interconnection Application and Service Agreement

Faculty Machine Information:
Generator/ Model Name &
Inverter Manufacturer: Enphase Number: M250 Microinverter Quantity: 36
Nameplate Rating: 0.250 (kW) (kVA) 240 (AC Volts) Phase: Single X Three
Nameplate Rating: The AC Nameplate rating of the individual inverter.
System Design Capacity: 9 (kW) (kVA) Battery Backup: Yes No X
System Design Capacity: The system total of the inverter AC ratings. If there are multiple inverters installed in the system, this is the
sum of the AC nameplate ratings of all inverters:
Net Metering: If Renewably Fueled, will the account be Net Metered? Yes No
Prime Mover: Photovoltaic X Reciprocating Engine Fuel Cell Turbine Other
Energy Source: Solar Wind Hydro Diesel Natural Gas Fuel Oil Other
Inverter-based Generating Facilities:
UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)
Yes No No
The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use With Independent Power
Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to
submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with 1H, 1741 1. This
term "Listed" is then marked on the equipment and supporting documentation. Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.
provided by the inverter mandalactures describing the inverter's OL 1/41/IEEE 154/,1 IISTING.
External Manual Disconnect Switch:
An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For
Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.
Yes No No
Location of External Manual Disconnect Switch: By the existing meter on the workshop
Project Estimated Install Date: September 2014 Project Estimated In-Service Date: October 2014
Interconnecting Customer Signature:
I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms
and Conditions for Simplified Process Interconnections attached hereto:
· la colle
Customer Signature Cultural (a Castell Title: Date: 9/9/14
Please include a one-line and/or three-line diagram of proposed installation. Diagram must indicate the generator connection
point in relation to the customer service panel and the PSNH meter socket. Applications without such a diagram may be
returned.
For PSNH Use Only
Approval to Install Facility:
Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this
Agreement, and agreement to any system modifications, if required.
Are system modifications required? Yes No To be Determined
Company Signature: Uluhuul Woffer Title: SR. ENGINEEL Date: 9-30-14
PSNH SPIA rev. 03/14 Page 2 of 3

#### PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INTERCONNECTION STANDARDS FOR INVERTERS SIZED UP TO 100 KVA

#### Terms and Conditions for Simplified Process Interconnections

Company waives inspection/Witness Test: Yes V No	Date of inspection/Witness Test:
₽	
•	
•	

- Construction of the Facility. The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its
  Application once the Approval to Install the Facility has been signed by the Company. Such Approval relates only to the PSNH and Puc 900
  electrical interconnection requirements, and does not convey any permissions or rights associated with permits, code enforcement, easements,
  rights of way, set back, or other physical construction issues.
- 2. Interconnection and operation. The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
  - 2.1. Municipal Inspection. Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
  - 2.2. Certificate of Completion. The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted:
  - 2.3. Company has completed or waived the right to inspection.
- 3. Company Right of Inspection. The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion; and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
- 4. Safe Operations and Maintenance. The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
- 5. Disconnection. The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
- 6. Metering and Billing. All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
  - 6.1. Interconnecting Customer Provides: The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
  - 6.2. Company Installs Meter. The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
- -7. Indemnification. Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
- 8. Limitation of Liability. Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
- 9. Termination. This Agreement may be terminated under the following conditions:
  - 9.1. By Mutual Agreement. The Parties agree in writing to terminate the Agreement.
  - 9.2. By Interconnecting Customer. The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
  - 9.3. By Company. The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
- 10. Assignment/Transfer of Ownership of the Facility: This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
- 11. Interconnection Standard. These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).

PSNH SPIA rev: 03/14

#### PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INTERCONNECTION STANDARDS FOR INVERTERS SIZED UP TO 100 KVA (Continued)

### Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:	☐ Check if owner-in	nstalled		
Customer or Company Name (print): Richard K	ardell			
Contact Person, if Company:				
Mailing Address: <u>14 Marion's Way</u>	NIL1		03581	
Mailing Address: <u>14 Marion's Way</u> City: Gorham	State: NIT	Zip Code:	03301	
Telephone (Daytime):	(Evening):			
Facsimile Number:	E-Mail Address:			
Address of Facility (if different from above):				
City:	State:	Zip Coo	le:	
Generation Vendor: Smart Energy of New Er I herby certify that the system hardware is in comp	ngland Inc. Contact Per	son: David Belange	PF	
Vendor Signature:		Date: 1	0/13/14	
Electrical Contractor's Name (if appropriate):S Mailing Address:241 US Route 3				
City: Stewartstown	State: NIT	Zip Co	de:	
Telephone (Daytime): 603-246-8698				
Facsimile Number:				
License number: 10774M				
Date of approval to install Facility granted by the	Company: 10/1/14	Installation	Date: 10/13/14	
Application ID number: N3169				
$\frac{\text{Inspection:}}{\text{3kS}}$ The system has been installed and inspected in co	mpliance with the local B	uilding/Electrical Code	e of	
Gorham / Coos - Compues u				_
(City/County)				
Signed (Local Electrical Wiring Inspector, or atta	ch signed electrical inspec	ction): Oan K	Scary-Co	oe oalice
Name (printed): JOHN K. SCA			~	-
Date: 1/5/2014				
Customer Certification:				
I hereby certify that, to the best of my knowledge correct. This system has been installed and shall initial start up test required by Puc 905.04 has been start up to the start up test required by Puc 905.04 has been start up to the start up test required by Puc 905.04 has been start up test requi	be operated in compliance	e with applicable electi	ection Notice is true and rical standards. Also, the	
Customer Signature:		Date:		